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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,350	09/30/2005	Jao Wu	97674.00001	6322
21832 75	590 11/03/2006		EXAM	INER
MCCARTER & ENGLISH LLP			NGUYEN, DINH Q	
CITYPLACE I 185 ASYLUM STREET			ART UNIT	PAPER NUMBER
HARTFORD, CT 06103			3752	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/524,350	WU, JAO				
Office Action Summary	Examiner	Art Unit				
•	Dinh Q. Nguyen	3752				
The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a swill apply and will expire SIX (6) MON the, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 S	September 2005.					
•	,—					
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex paπe Quayle, 1935 C.L	J. 11, 453 O.G. 213.				
Disposition of Claims	·					
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected.	cepted or b) objected to drawing(s) be held in abeyare ction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	its have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	application No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/30/05.		nformal Patent Application				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed September 30, 2005 fails for not having a signature.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "shower head" of claim 7, the "plurality of inlets" in claim 8 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are generally narrative and indefinite, failing to conform to current U.S. practice. They appear to be a literal translation into English from a foreign document. The claims appear to be a list of the elements of the invention without a clear explanation of each element's placement. Applicant is advised to completely review the claims for errors. For example: in claim 5, Applicant fails to properly disclose "the narrow gap is variable by movement of the disc"; in claim 7, Applicant fails to properly disclose "a plurality of inlets".
- 5. For the purpose of this Office action, the claims will be examined as best understood by the examiner.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1-4, 6, 9, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Perera as best understood by the Examiner.

Perera discloses an apparatus for regulating flow through a spray nozzle 3 comprising: a circular chamber 7 with end walls 1/15, a peripheral sidewall 5, a central axis; a first inlet 13 enter the chamber tangential to the peripheral wall to form a primary lower layer, an outlet exiting 3, a second flow path 19 radially inwardly toward the central axis to form a secondary layer, wherein disc 5 engageable with a spray nozzle housing 1, and a fix narrow annular gap 17 for generating an inwardly radial flow.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Perera in view of Jacob et al.

Perera teaches all the limitations of the claims except for a shower head.

However, Jacob discloses a radially inward inlet 58 and a circular chamber 48.

Therefore, it would have been obvious to one having ordinary skill in the art to configure the device of Perera with a shower head as suggested by Jacob. Doing so would provide an effective shower head.

10. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Perera in view of Hunter et al.

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Perera teaches all the limitations of the claims except for the disc with curved portion. However, Hunter discloses a fluid regulating device with inlets 61 and 62 enter the chamber tangential to the peripheral wall and disc 41/42 having curved portion (see figures 2 and 3). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Perera with the disc with curved portion as suggested by Hunter. Doing so would provide an effective way for mixing fluids (see column 2, lines 28+).

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to show the art with respect to a fluid regulating device: Gunther, Widell, and Rhoades.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dinh Q Nguyen Primary Examiner Art Unit 3752

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